

ABSTRACT

An optical apparatus, an exposure apparatus, and a laser light source maintain a satisfactory working
5 environment during maintenance, an abnormal state, or the like, and suppress clouding of optical elements. An inert gas supply system (33) and a dry air supply system (35) are selectively connected to a first lens barrel (46) and a
10 second lens barrel (48) of an exposure apparatus main body (11) and a light source chamber (16) of a laser apparatus (12). Oxygen sensors (78, 42) for measuring oxygen concentration and exhaust volume monitors (77, 41) for
15 detecting the exhaust volume of an exhaust duct (40) are arranged in a chamber (45) of the exposure apparatus main body (11) and a chamber (15) of the laser apparatus (12). When at least one of the oxygen concentrations detected by the oxygen sensors (78, 42) and the exhaust volume detected by the exhaust volume monitors (77, 41) falls below a
20 predetermined value, the purge gas supplied to the first and second lens barrels (45, 46) and the light source chamber (16) is switched from inert gas to dry air.